

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/559, 415  
Source: IFWP  
Date Processed by STIC: 12/16/2005

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,415

TIME: 15:14:37

Input Set : A:\Stripped Sequence Listing.txt

Output Set: N:\CRF4\12162005\J559415.raw

```

3 <110> APPLICANT: AstraZeneca AB et al
5 <120> TITLE OF INVENTION: Diagnostic Method
7 <130> FILE REFERENCE: 101073-1P WO
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/559,415
C--> 10 <141> CURRENT FILING DATE: 2005-12-06
12 <150> PRIOR APPLICATION NUMBER: 0313081.2
13 <151> PRIOR FILING DATE: 2003-06-06
15 <160> NUMBER OF SEQ ID NOS: 191
17 <170> SOFTWARE: PatentIn version 3.2
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 7430
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
24 <400> SEQUENCE: 1
25 ggcggggcgcg cgcggcccgcc caccatggag ccccgagcgcc gggagctgct cgcccagtgt      60
27 cagcagagcc tggcccaggc catgacggag gtggaagccg tgctcgggct gctcgaggcc      120
29 gcgggagcgc tcagtcgccg cgagcggcgg cagctggacg aggaggcggg aggcgccaag      180
31 gcggagctgc tgctcaagct gctcttggcc aaggagcggg accacttcca ggacctgcgg      240
33 gcggcgctgg agaagacgca gcctcacctg ctgccattc tctacctgaa cggcgtcgtc      300
35 gggccgcccgc agcccgccga aggcgcgggt tctacctaca gcgtcctgtc caccatgccc      360
37 tcagactcag aaagcagcag ctccctcagc agtgtgggca ctaccgggaa ggcgcctgcc      420
39 ccaccacccc tcctcactga ccagcaagtg aatgagaagg tggagaacct ctccattcag      480
41 ctgcggctga tgacccggga gagaaacgag ctccgcaagc gcctggcctt tgctacgcat      540
43 ggcacggcct ttgacaagag gccctaccac aggtggaatc ctgactatga gaggtgaag      600
45 atccagtgcg tgcgagccat gtcggacctg cagagcctgc agaaccagca caccaacgcc      660
47 ttgaagaggt gtgaggaggt ggccaaggag actgacttct accacacact ccacagccgg      720
49 ctcttgagtg accagactcg gctgaaggat gacgtggaca tgctgaggcg ggagaatggg      780
51 cagctgctgc gggagcgaaa cctgctgcag cagtcatggg aggacatgaa gcggctccac      840
53 gaggaggacc agaaggagat cggtgacctc cgtgcccagc agcagcaggt gttgaagcac      900
55 aacgggtcat ccgagattct caacaaactg tatgacacgg ccatggacaa gttggagggt      960
57 gtcaagaagg actatgacgc ccttcggaag aggtacagtg agaaagtcgc catccacaat     1020
59 gcagacctga gccgcctgga gcagctgggg gaggagaacc agcggttgct gaagcagaca     1080
61 gagatgctga cccagcagag ggacacggcc atccagctgc agcaccagtg cgccctctcc     1140
63 ctgaggaggt ttgaggcgat ccaccatgag ctgaacaagg ccacggcgca gaacaaggac     1200
65 ctgcagtggg agatggagct gctgcagtca gagctgaccg agctgagaac cacgcaggtg     1260
67 aagacagcaa aggagtcgga gaaatacagg gaggagcggg acgctgtgta cagcgagtac     1320
69 aagctcatca tgagtgcgag tgaccagggtc atctctgagc tggacaagct gcagaccgaa     1380
71 gtggagctgg ccgagtccaa gctcaagagc agcacatctg agaagaaggc ggccaatgag     1440
73 gagatggagg cgctgcggca gatcaaagac acggtgacaa tggatgctgg gagagccaac     1500
75 aaggagggtg aaatccttcg aaagcagtgc aaggctctgt gccaggagct gaagggaagcc     1560
77 ctccaggagg cggatgtggc caagtgccgg cgggactggg ccttccagga gcgagacaag     1620
79 attgtagcag agcgtgacag catccggaca ctgtgtgaca acctgaggcg ggagcgggac     1680
81 cgtgcggtga gcgagctggc tgaggccctg cgcagcctgg atgacacccg caagcagaag     1740

```

## RAW SEQUENCE LISTING

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,415

TIME: 15:14:37

Input Set : A:\Stripped Sequence Listing.txt

Output Set: N:\CRF4\12162005\J559415.raw

83	aatgatgtca	gccgcgagct	gaaggagctc	aaggaacaga	tggaatccca	gttggaaaag	1800
85	gaggccccgt	tccgacagct	gatggcccac	agctcccacg	actcggccat	tgacacggat	1860
87	tccatggagt	gggaaacgga	agttgtagag	ttcgagaggg	agacggagga	tattgacttg	1920
89	aaggcactgg	ggtttgatat	ggcagaaggt	gtgaatgagc	cttgtttccc	gggggactgt	1980
91	ggcatatttg	tactaaagt	ggacaaagga	agcattgctg	atggccgctt	aagggtcaat	2040
93	gactggctgc	tgagaatcaa	cgatgtggac	ctcatcaaca	aggacaagaa	gcaggccatc	2100
95	aaggcgctcc	tcaatgggga	ggggggccatc	aacatggctg	tgcggcggag	gaagtccctg	2160
97	ggtgggaagg	tggtcacgcc	gctgcacatc	aacctcagtg	gacagaaaga	cagtggcatc	2220
99	agtctggaga	atggagtgtg	tgtctccgct	gtgtctgctg	gaagccctgc	cgctaaagaa	2280
101	gggtcccttg	ctgtgggaga	caggatcggt	gcatcaatg	gcattgcact	ggacaacaag	2340
103	tctctgaatg	aatgtgaatc	tctgtctggg	agctgccagg	actccctgac	cctgtccctc	2400
105	ctgaaggat	tccctcagag	ctcctcgtgg	agtggccaga	acatttttga	aaatatcaaa	2460
107	gactctgata	agatgctgag	ttttcgagcc	catggcccgg	aggtccaggc	tcataacaaa	2520
109	cggaaacttg	tacagcacia	taactccacg	cagacagaca	tcttctacac	ggacaggctg	2580
111	gaagacagga	aggagccagg	ccccccagga	ggcagcagct	cctttctgca	taagccattc	2640
113	cctggggggac	ccttgccagg	ctgccccccag	gcctgtccca	gtgcctctga	gcgtagcctg	2700
115	agctcccttc	gctcagatgc	ctctggggac	cgtggctttg	ggctgggtgga	cgtgcgtggc	2760
117	cggcgccac	tgctgccctt	tgagaccgag	gtgggcccct	gtgggggttg	ggaggccctc	2820
119	ctggacaagg	cagactctga	aggctccaac	agcggcggga	cctggcccaa	ggccatgctc	2880
121	agctccacgg	cagtgcctga	gaagctctct	gtttataaaa	agccaaagca	aagaaagtcc	2940
123	atccttgacc	ctaactctt	caaaccccc	cagacacccc	ccaaaataga	ctacctgctt	3000
125	ccaggtcctg	ggctgtctca	ctctccccag	ccctccaaga	gggcgggggc	tctgacaccc	3060
127	ccaaaacctc	ccagaaggag	cgactccatt	aagttccagc	acaggctgga	gactagctcc	3120
129	gagtcagaag	ccactctggt	gggcagctcc	ccatccacta	gtcccccgag	cgccctgccc	3180
131	cctgacgtgg	accccgggga	gcccattgcac	gcacacccc	ctcgcaaggc	cagggtccgc	3240
133	attgcttcca	gctactaccc	tgaaggagat	ggggaactct	cccacctgcc	ggccaagaaa	3300
135	tctgtgatg	aggacctcac	ctcccagaag	gtggatgagc	tggggcagaa	gcgtcgccgg	3360
137	ccaaaatctg	ctcccagttt	tggccgaag	cttgctccag	tagtgattcc	tgctcagttc	3420
139	ctggaggaac	agaagtgtgt	cccggccagt	ggagaactct	ccccggagct	ccaggagtgg	3480
141	gcaccttact	cgcctgggca	ttccagccgg	cacagcaacc	ccccgctata	ccctagcagg	3540
143	cgtctgtgg	gactgtttcc	ccggagtgtg	acccccagca	ccactgtgag	ctccatcctg	3600
145	cggaaaccca	tctacactgt	gcgcagtcac	agggctcgcc	cctgcagctc	tccacctgcg	3660
147	gcccagatg	ctggccccca	gggtttgcat	cccagtgtcc	agcaccaggg	acgcctgagc	3720
149	ctggacctga	gccacaggac	ctgcagcgac	tactccgaga	tgagagccac	ccatgggtcc	3780
151	aactcaactgc	cctccagcgc	ccgcctgggt	tcttcagata	acttgcaagt	caaggcggaa	3840
153	cgcattaaaa	tcccatcaac	accaagatat	ccgcggagtg	tctgtgggctc	cgagagaggt	3900
155	tcagtgtcac	attctgaatg	cagcactcct	ccacagtcc	ccctgaacat	cgacaccttg	3960
157	tcctcttgta	gccagtccca	gacctcagcc	tccacattgc	ccagaatcgc	tgtcaacccc	4020
159	gcgtccctcg	gggagcggag	aaaggacagg	ccttatgtgg	aggagccacg	ccacgtgaag	4080
161	gtgcagaagg	gctcagagcc	gctgggcac	tccatcgtga	gtggagagaa	gggcggcatc	4140
163	tacgtctcca	aggtgaccgt	ggggagcacc	gctcaccagg	ctggcctcga	gtatggggat	4200
165	cagttactgg	agttcaacgg	cataaacctg	cggagcgcca	cggagcagca	ggcgcggtc	4260
167	atcatcgggc	agcagtgtga	taccatcacc	atcctggccc	agtacaaccc	ccacgtgcac	4320
169	cagctcagca	gccactccc	gtccagctca	cacctggacc	ctgccgggtac	ccactccact	4380
171	ctccagggca	gtggcaccac	caccccgagg	catccatctg	tcacgcaccc	actgatggag	4440
173	caggacgagg	ggcctagcac	ccccccagcc	aagcagagca	gctccaggat	tgcgggagat	4500
175	gccaacaaga	agaccctgga	gccacgcgtt	gtcttcatca	aaaagtccca	gctggagctt	4560
177	ggggtgcact	tgtgtgggtg	gaacctgcat	ggggtgtttg	tggccgaggt	ggaggatgac	4620
179	agtccctgcca	agggctctga	cggcctcgtg	ccagggggacc	tcacctctgga	gtatggcagc	4680

## RAW SEQUENCE LISTING

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,415

TIME: 15:14:37

Input Set : A:\Stripped Sequence Listing.txt

Output Set: N:\CRF4\12162005\J559415.raw

```

181 ctggacgtgc ggaacaagac agtggaggaa gtctatgtgg agatgctgaa gcccagggat 4740
183 ggcgtccgcc tgaaggtgca gtaccgccct gaggagttca cgaaggccaa gggcctgcct 4800
185 ggtgacagct tctacatcag ggccctgtac gaccggctgg cagatgtgga gcaagagttg 4860
187 agctttaaga aggacgacat cctctacgtg gatgacacct taccgccagg cacgttcggg 4920
189 tcctggatgg cttggcagct ggacgagaat gccagaaga tccagcgcg gcagattccc 4980
191 agcaaatatg tgatggacca agaattctcc aggaggctca gcatgtctga agtcaaagat 5040
193 gacaatagcg ccacaaagac gctgtcagcg gctgcacgcc ggctcctttt tcggaggaaa 5100
195 cacaagcaca aacgcagcgg gtccaaggac gggaaagacc tgctgcctt ggatgcctt 5160
197 tccagtgaact ccattccact ctttgaagat tcggtgagcc tggcctatca gcgggtccag 5220
199 aaggtggact gcaccgctct gaggcctgtc ctgattctgg ggcctttgct ggacgtggtg 5280
201 aaggagatgc tggatgaatga ggctcctggc aagttctgca gatgtccct tgaggtgatg 5340
203 aaggcctccc agcaggccat tgagcggggg gtcaaagatt gcctgtttgt cgactataag 5400
205 cggagaagcg gccatttcga tgtgaccact gtggcgctca taaaggagat cacagaaaag 5460
207 aaccgacact gcctcctgga cattgctccg cacgctattg agcggctcca ccacatgcac 5520
209 atctacccca ttgtcatctt catccactac aagagcgcca agcacatcaa ggagcagaga 5580
211 gaccccatct acctgagggg caaggtgact cagaggcatt ccaaagagca gtttgaggcg 5640
213 gcgcagaagc ttgagcagga gtacagcagg tacttcacag gggcatcca gggaggagcc 5700
215 ctgtcaagca tttgcaactca gatcttggca atggtcaatc aagaacaaaa taaagtcttg 5760
217 tggattccag cctgcccgtc ctaggagaat gctgtgctgt ggatgactgc agctggccgc 5820
219 ctgagggggac accagactca gctcttttct agcgactgaa agtagaagtc tgtccgtcta 5880
221 tgaacatgcy ggggaaggat ccggaaccag gaccagaag cacctcctt gtagacagag 5940
223 gggcacggct gcgtgcgac caggccagg ccacacact ctgccgtgt cacacgtgtg 6000
225 ctttaacaca aaacagataa cactaaagac gggttcagca cccaccttct tttagccagc 6060
227 tgatcagaga tgctgcaaag agaaccttct ggatcactcg tttacaagcc ttttctaagt 6120
229 atttgggtgg ttatgtttac ttgaacggct ccatgttgcc ggtgcccagc cctgtcccc 6180
231 tctgtcaacc cctgtcgtc ttggtgttgg tttcgttccc gtcttcagca aaacgacctt 6240
233 ggaacctcaa tgggggctgc tttgctttgg gaggttcttg ttggtgggac cagagctttg 6300
235 acaaacctcc tgctccttgg tggcacctct cctggaagga cgtcacact ccaggtgctc 6360
237 agactgcctg tggcagcaga accagtgcct ttggcatttt cctcccacaa tggggaagggt 6420
239 gactttggca ttcttacaaa ctctgtctctc ggcctttctc tctgccttc cacagcctct 6480
241 cgtttctcct ccatctgtgc ttattacttg aggactgtgt ctgctccgtg agagctgcgt 6540
243 gggcagggct gcagtgggtt ccaggtggtg ttcagctgtg ctgatgcctg ccattgggtc 6600
245 ctcttaggc tctgtaagtc gtgacagcct tcatcagtgc aatgtttgca gggtaattct 6660
247 taaacttttt agaggggtggc aggtacatca gttctttttg atatgaaaac attcatgttt 6720
249 cagacattga attgagagct tttaggggaa gcataatggt tattgtcact atcaacagtc 6780
251 taaaaagaaa aactgaggtc tttttaatct tgattacagc actcacggca tgcacctac 6840
253 tcagtgtggg tgtcttcgtt tgggggcttt ttttttttt gcacttctga ggctagatat 6900
255 gtctggctga agatttgatg tggttcctcc ttaagctatg cgtcctgtta ataataggta 6960
257 ctgtactggg ctctgtgtaa gtgtcggttg ggtaggacct atattttaat actgttccta 7020
259 acatttcatt ttactagcga gaaatctttg atttcatttt attctttgta attctagaca 7080
261 ctgatttga gtttagccat aactgatgtt ttttaaaaag ggatatattt tcttgacag 7140
263 ttgttcaaaa aagagacaag tttcagtcct caatgctgtc ctttgtttta cagggtacaag 7200
265 ttttctagct cagacaaact atgaaaaact gtagactatt ctcaaggat taactcgcag 7260
267 accctctggg ggtaggggct gttttctaag ttacaggcag agtgggactg agatggtaca 7320
269 gtgtgcacag acaggtactg agctgacaga ctgggatttt ctgtactaaa atgttacttt 7380
271 gtataaaagt taacaggct ttagtacaac aaataaagggt caatttctgt 7430
274 <210> SEQ ID NO: 2
275 <211> LENGTH: 1919
276 <212> TYPE: PRT

```

## RAW SEQUENCE LISTING

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,415

TIME: 15:14:37

Input Set : A:\Stripped Sequence Listing.txt

Output Set: N:\CRF4\12162005\J559415.raw

```

277 <213> ORGANISM: Homo sapiens
279 <400> SEQUENCE: 2
281 Met Glu Pro Gln Arg Arg Glu Leu Leu Ala Gln Cys Gln Gln Ser Leu
282 1          5          10          15
285 Ala Gln Ala Met Thr Glu Val Glu Ala Val Leu Gly Leu Leu Glu Ala
286          20          25          30
289 Ala Gly Ala Leu Ser Pro Gly Glu Arg Arg Gln Leu Asp Glu Glu Ala
290          35          40          45
293 Gly Gly Ala Lys Ala Glu Leu Leu Leu Lys Leu Leu Leu Ala Lys Glu
294          50          55          60
297 Arg Asp His Phe Gln Asp Leu Arg Ala Ala Leu Glu Lys Thr Gln Pro
298 65          70          75          80
301 His Leu Leu Pro Ile Leu Tyr Leu Asn Gly Val Val Gly Pro Pro Gln
302          85          90          95
305 Pro Ala Glu Gly Ala Gly Ser Thr Tyr Ser Val Leu Ser Thr Met Pro
306          100         105         110
309 Ser Asp Ser Glu Ser Ser Ser Ser Leu Ser Ser Val Gly Thr Thr Gly
310          115         120         125
313 Lys Ala Pro Ser Pro Pro Pro Leu Leu Thr Asp Gln Gln Val Asn Glu
314          130         135         140
317 Lys Val Glu Asn Leu Ser Ile Gln Leu Arg Leu Met Thr Arg Glu Arg
318 145         150         155         160
321 Asn Glu Leu Arg Lys Arg Leu Ala Phe Ala Thr His Gly Thr Ala Phe
322          165         170         175
325 Asp Lys Arg Pro Tyr His Arg Leu Asn Pro Asp Tyr Glu Arg Leu Lys
326          180         185         190
329 Ile Gln Cys Val Arg Ala Met Ser Asp Leu Gln Ser Leu Gln Asn Gln
330          195         200         205
333 His Thr Asn Ala Leu Lys Arg Cys Glu Glu Val Ala Lys Glu Thr Asp
334          210         215         220
337 Phe Tyr His Thr Leu His Ser Arg Leu Leu Ser Asp Gln Thr Arg Leu
338 225         230         235         240
341 Lys Asp Asp Val Asp Met Leu Arg Arg Glu Asn Gly Gln Leu Leu Arg
342          245         250         255
345 Glu Arg Asn Leu Leu Gln Gln Ser Trp Glu Asp Met Lys Arg Leu His
346          260         265         270
349 Glu Glu Asp Gln Lys Glu Ile Gly Asp Leu Arg Ala Gln Gln Gln Gln
350          275         280         285
353 Val Leu Lys His Asn Gly Ser Ser Glu Ile Leu Asn Lys Leu Tyr Asp
354          290         295         300
357 Thr Ala Met Asp Lys Leu Glu Val Val Lys Lys Asp Tyr Asp Ala Leu
358 305         310         315         320
361 Arg Lys Arg Tyr Ser Glu Lys Val Ala Ile His Asn Ala Asp Leu Ser
362          325         330         335
365 Arg Leu Glu Gln Leu Gly Glu Glu Asn Gln Arg Leu Leu Lys Gln Thr
366          340         345         350
369 Glu Met Leu Thr Gln Gln Arg Asp Thr Ala Ile Gln Leu Gln His Gln
370          355         360         365
373 Cys Ala Leu Ser Leu Arg Arg Phe Glu Ala Ile His His Glu Leu Asn

```

## RAW SEQUENCE LISTING

DATE: 12/16/2005

PATENT APPLICATION: US/10/559,415

TIME: 15:14:37

Input Set : A:\Stripped Sequence Listing.txt

Output Set: N:\CRF4\12162005\J559415.raw

```

374      370      375      380
377 Lys Ala Thr Ala Gln Asn Lys Asp Leu Gln Trp Glu Met Glu Leu Leu
378 385      390      395      400
381 Gln Ser Glu Leu Thr Glu Leu Arg Thr Thr Gln Val Lys Thr Ala Lys
382      405      410      415
385 Glu Ser Glu Lys Tyr Arg Glu Glu Arg Asp Ala Val Tyr Ser Glu Tyr
386      420      425      430
389 Lys Leu Ile Met Ser Glu Arg Asp Gln Val Ile Ser Glu Leu Asp Lys
390      435      440      445
393 Leu Gln Thr Glu Val Glu Leu Ala Glu Ser Lys Leu Lys Ser Ser Thr
394      450      455      460
397 Ser Glu Lys Lys Ala Ala Asn Glu Glu Met Glu Ala Leu Arg Gln Ile
398 465      470      475      480
401 Lys Asp Thr Val Thr Met Asp Ala Gly Arg Ala Asn Lys Glu Val Glu
402      485      490      495
405 Ile Leu Arg Lys Gln Cys Lys Ala Leu Cys Gln Glu Leu Lys Glu Ala
406      500      505      510
409 Leu Gln Glu Ala Asp Val Ala Lys Cys Arg Arg Asp Trp Ala Phe Gln
410      515      520      525
413 Glu Arg Asp Lys Ile Val Ala Glu Arg Asp Ser Ile Arg Thr Leu Cys
414      530      535      540
417 Asp Asn Leu Arg Arg Glu Arg Asp Arg Ala Val Ser Glu Leu Ala Glu
418 545      550      555      560
421 Ala Leu Arg Ser Leu Asp Asp Thr Arg Lys Gln Lys Asn Asp Val Ser
422      565      570      575
425 Arg Glu Leu Lys Glu Leu Lys Glu Gln Met Glu Ser Gln Leu Glu Lys
426      580      585      590
429 Glu Ala Arg Phe Arg Gln Leu Met Ala His Ser Ser His Asp Ser Ala
430      595      600      605
433 Ile Asp Thr Asp Ser Met Glu Trp Glu Thr Glu Val Val Glu Phe Glu
434      610      615      620
437 Arg Glu Thr Glu Asp Ile Asp Leu Lys Ala Leu Gly Phe Asp Met Ala
438 625      630      635      640
441 Glu Gly Val Asn Glu Pro Cys Phe Pro Gly Asp Cys Gly Ile Phe Val
442      645      650      655
445 Thr Lys Val Asp Lys Gly Ser Ile Ala Asp Gly Arg Leu Arg Val Asn
446      660      665      670
449 Asp Trp Leu Leu Arg Ile Asn Asp Val Asp Leu Ile Asn Lys Asp Lys
450      675      680      685
453 Lys Gln Ala Ile Lys Ala Leu Leu Asn Gly Glu Gly Ala Ile Asn Met
454      690      695      700
457 Val Val Arg Arg Arg Lys Ser Leu Gly Gly Lys Val Val Thr Pro Leu
458 705      710      715      720
461 His Ile Asn Leu Ser Gly Gln Lys Asp Ser Gly Ile Ser Leu Glu Asn
462      725      730      735
465 Gly Val Tyr Ala Ala Ala Val Leu Pro Gly Ser Pro Ala Ala Lys Glu
466      740      745      750
469 Gly Ser Leu Ala Val Gly Asp Arg Ile Val Ala Ile Asn Gly Ile Ala
470      755      760      765

```

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/559,415

DATE: 12/16/2005

TIME: 15:14:38

Input Set : A:\Stripped Sequence Listing.txt

Output Set: N:\CRF4\12162005\J559415.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date